

21

<b>Notice of Allowability</b>	Application No.	Applicant(s)	
	10/602,964	JAMISON ET AL.	
	Examiner	Art Unit	
	Demetrius R. Pretlow	2863	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to telephone interview December 1, 2006.
2. ☒ The allowed claim(s) is/are 1-10, 13-17 and 19-22.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

- |   |  |
|---|--|
| <ol style="list-style-type: none"> <li>1. <input type="checkbox"/> Notice of References Cited (PTO-892)</li> <li>2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08),<br/>Paper No./Mail Date _____</li> <li>4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit<br/>of Biological Material</li> </ol> | <ol style="list-style-type: none"> <li>5. <input type="checkbox"/> Notice of Informal Patent Application</li> <li>6. <input checked="" type="checkbox"/> Interview Summary (PTO-413),<br/>Paper No./Mail Date <u>12/4/06</u></li> <li>7. <input type="checkbox"/> Examiner's Amendment/Comment</li> <li>8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance</li> <li>9. <input type="checkbox"/> Other _____</li> </ol> |
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### DETAILED ACTION

The Final Office Action mailed June 21, 2006 has been withdrawn.

#### *Allowable Subject Matter*

Claims 1-10 and 13-17 are allowed.

The primary reason for the allowance of claims 1-10 is the inclusion of the method steps of identifying each critical device (CD) that is employed to affect a position of an associated critical component (CC); identifying a plurality of possible positions (PPco) for each critical device (CD); identifying a plurality of possible combinations (PC), each possible combination (PC) including one of the possible positions (PPcn) for each of the critical devices (CD); and evaluating each of the possible combinations (PC) to identify which of said possible combinations (PCA) adversely effect the output of the machine tool. And adjusting the corresponding critical devices as necessary so that no critical device is positioned in a strategic position that would adversely affect the output of the machine tool. It is these steps found in each of the claims, as it is **claimed in the combination**, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 13-16 is the inclusion of the method steps of directly aligning the one of the container and the stem directly to the axis of the

Art Unit: 2863

other one of the container and the stem by adjusting one of the container and the stem such that the axis of the one of the container and the stem is coincident to the axis of the other one of the container and the stem; wherein a laser transmitter is employed to establish the axis of the stem. It is this step found in each of the claims, as it is **claimed in the combination**, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claim 17 is the inclusion of the method step of directly aligning the one of the container and the stem directly to the axis of the other one of the container and the stem by adjusting one of the container and the stem such that the axis of the one of the container and the stem is coincident to the axis of the other one of the container and the stem; wherein a plurality of jack screws are employed to selectively position the container and wherein the step of adjusting the container includes determining an amount and direction in which each of the jack screws is to be rotated.. It is this step found in each of the claims, as it is **claimed in the combination**, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claim 19 is the inclusion of the method steps of aligning the moving crosshead horizontally and vertically to an axis defined by the main ram, wherein the step of aligning the moving crosshead horizontally comprises: mounting a laser transmitter to one of the front and rear platens; moving a

laser receiver to the other one of the front and rear platens; generating a laser beam with the laser transmitter; receiving the laser beam with the laser receiver to establish an offset axis, the offset axis being horizontally offset from the axis of the main ram by a predetermined distance', mounting the laser receiver to the moving crosshead', receiving the laser beam with the laser receiver to determine an amount by which an axis of the moving crosshead is horizontally offset from the offset axis; and calculating an amount by which the axis of the moving crosshead is horizontally offset from the axis of the main ram. It is these steps found in each of the claims, as it is **claimed in the combination**, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

The primary reason for the allowance of claims 20-21 is the inclusion of the method step of aligning the moving crosshead horizontally and vertically to an axis defined by the main ram, wherein the step of aligning the moving crosshead vertically comprises: mounting a laser transmitter on a first lateral side of the extrusion press, the laser transmitter generating a laser beam that is contained in a first horizontal plane; mounting a laser receiver to the rear platen on the first lateral side; transmitting the laser beam in the first horizontal plane to the laser receiver to determine a first elevation of the rear platen; mounting the laser receiver to the front platen on the first lateral side; transmitting the laser beam in the first horizontal plane to the laser receiver to determine a first elevation of the front platen; mounting the laser receiver to the moving crosshead on the first lateral side; transmitting the laser beam in the first horizontal plane to the laser receiver to determine a first elevation of the moving crosshead; mounting the laser

Art Unit: 2863

receiver to the container; transmitting the laser beam in the first horizontal plane to the laser receiver to determine an elevation of the container', mounting a laser transmitter on a second lateral side of the extrusion press such that the laser transmitter generates the laser beam in a second horizontal plane; transmitting the laser beam in the second horizontal plane to the laser receiver that is mounted on the container to determine a lateral elevation offset; mounting the laser receiver to the rear platen on the second lateral side; transmitting the laser beam in the second horizontal plane to the laser receiver to determine a second elevation of the rear platen; mounting the laser receiver to the front platen on the second lateral side; transmitting the laser beam in the second horizontal plane to the laser receiver to determine a second elevation of the front platen', mounting the laser receiver to the moving crosshead on the second lateral side; transmitting the laser beam in the second horizontal plane to the laser receiver to determine a second elevation of the moving crosshead; employing the first and second elevations of the rear platen, the first and second elevations of the front platen and the lateral elevation offset to determine a position of the axis of the main ram in a generally vertical plane; and employing the first and second elevations of the moving crosshead and the lateral elevation offset to determine a position of the axis of the moving crosshead in the generally vertical plane. It is these steps found in each of the claims, as it is **claimed in the combination**, that has not been found, taught or suggested by the prior art of record which makes these claims allowable over the prior art.

Art Unit: 2863

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Demetrius R. Pretlow whose telephone number is (571) 272-2278. The examiner can normally be reached on Mon.-Fri. 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

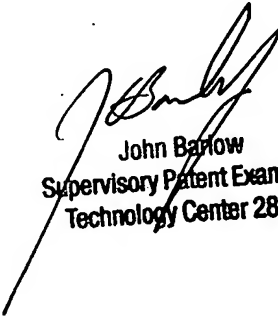
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Demetrius R. Pretlow



12/4/06

Patent Examiner



John Barlow  
Supervisory Patent Examiner  
Technology Center 2800